



Maharaja Education Trust (R), Mysuru
MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
 An Autonomous Institute affiliated to Visvesvaraya Technological University, Belagavi
 Belawadi, Srirangapatna Taluk, Mandya – 571 477



Approved by AICTE, New Delhi | Recognized by Govt. of Karnataka

Ref: MITM/1st Yr/CV Stream/Scheme/2023-24/003

Scheme of Teaching and Examination for BE (Autonomous Scheme-2023)
 (Effective from the Academic Year 2023-24)

I-Semester (Civil Engineering Stream)														Physics Group
Sl. No.	Course Area	Course Code		Course Title	TD/PSB	Teaching Hours/Week				Examination				Credits
		existing	To be Changed to			Theory/Lecture	Tutorial	Practical/Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	BS	BMATC101	M23BMATC101	Mathematics-I for Civil Engg stream	Basic Science	2	2	2	0	03	50	50	100	04
2	BS	BPHYP102	M23BPHYP102	Applied Physics for Civil Engineering Stream	Basic Science	2	2	2	0	03	50	50	100	04
3	ES	BCIVC103	M23BCIVC103	Engineering Mechanics	Respective Dept	2	0	2	0	03	50	50	100	03
4	ES-1	BESCK104x	M23BESK104x	Engineering Science Course-I	Respective Dept	2	0	2	0	03	50	50	100	03
5	ET-1	BETCK105x	M23BETK105x	Emerging Technology Course-I	Any Dept	3	0	0	0	03	50	50	100	03
		OR					2	0	2	0				
6	HS	BENCK106	M23BENCK106	Communicative English	Humanities Any Dept	1	0	0	0	01	50	50	100	01
		OR		BPWSK106										
7	HS	BKSKK107/ BKBBK107	M23BKSKK107/ M23BKBBK107	Sanskritika Kannada/ Balake Kannada	Humanities Any Dept	1	0	0	0	01	50	50	100	01
		OR		BICOK107										
8	AE	BIDTK158	M23BIDTK158	Innovation and Design Thinking	Basic Science Any Dept	1	0	0	0	01	50	50	100	01
		OR		BSFHK158										
Total											400	400	800	20

SDA-Skill Development Activities, TD/PSB – Teaching Department / Paper Setting Board, BS – Basic Science Course, ES – Engineering Science Courses, ET - Emerging Technology Course, AE –Ability Enhancement Course, HSMS – Humanity and Social Science and management Course, SDC - Skill Development Course, CIE – Continuous Internal Evaluation, SEE – Semester End Examination, IC –Integrated Course (Theory Course Integrated with Practical Course)



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<p>Credit Definition:</p> <p>1- hour Lecture (L) per week = 1Credit</p> <p>2- hours Tutorial (T) per week = 1Credit</p> <p>2- hours Practical/ Drawing (P) per week = 1Credit</p> <p>2- hours Skill Development Actives (SDA) per week = 1Credit</p>	<p>04- Credits courses are to be designed for 50 hours of Teaching – Learning Session</p> <p>04- Credits (IC) are to be designed for 40 hours’ theory and 12 – 14 hours of practical sessions</p> <p>03- Credits courses are to be designed for 40 hours of Teaching – Learning Session</p> <p>02- Credits courses are to be designed for 25 hours of Teaching – Learning Session</p> <p>01- Credit courses are to be designed for 12 – 15 hours of Teaching – Learning sessions</p>
<p>Student’s Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students abroad understanding of society, relationships, and values. Along with the knowledge and skill of his/ her study, students’ character needs to be nurtured as an essential quality by which he/ she would understand and fulfil the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/ Branch and Innovation, etc. For details, refer the ANNEXURE – I of Induction Programs notification of the University published at the beginning of the 1st semester.</p>	
<p>AICTE Activity Points to be earned by students admitted to BE/ B.Tech./ B.Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines) : Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from they are of entry to VTU. The Activity Points earned shall be reflected on the student’s eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours’ requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/ CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.</p>	
<p>ES or ET of 03 credits Courses shall have only a theory component (L:T:P:S = 3:0:0:0) or if the nature the of course required practical earning syllabus shall be designed as an Integrated course (L:T:P:S = 2:0:2:0). All 01 Credit – courses shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ</p>	



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(ES-I) Engineering Science Courses - I					(ET-I) Emerging Technology Courses - I				
Code	Title	L	T	P	Code	Title	L	T	P
M23BESK104A	Introduction to Civil Engineering				M23BETK105A	Green Buildings			
M23BESK104B	Introduction to Electrical Engineering				M23BETK105B	Introduction to Nano Technology			
M23BESK104C	Introduction to Electronics Communication				M23BETK105C	Renewable Energy Sources			
M23BESK104D	Introduction to Mechanical Engineering				M23BETK105D	Waste Management			
M23BESK104E	Introduction to C Programming				M23BETK105E	Introduction to Internet of Things (IOT)			
					M23BETK105F	Introduction to Cyber Security			

(PL-I) Programming Language Courses - I				
Code	Title	L	T	P
M23BPLK105A	Introduction to Web Programming			
M23BPLK105B	Introduction to Python Programming			
M23BPLK105C	Basics of JAVA programming			
M23BPLK105D	Introduction to C++ Programming			
<ul style="list-style-type: none"> • The student has to select one course from the ES-I group. • Civil Engineering Students shall opt for any one of the courses from the ES-I group except, BESCK104A Introduction to Civil Engineering • The students have to opt for the courses from ES group without repeating the course either 1st or 2nd semester • The students must select one course from either ET-I or PL-I group. • If students study the subject from ET-I in 1st semester he/she has to select the course from PL-II in the 2nd semester and vice - versa 				



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Scheme of Teaching and Examination for BE (Autonomous Scheme-2023)
 (Effective from the Academic Year 2023-24)

II-Semester (Civil Engineering Stream) Chemistry Group (For the students attended 1stsem under Physics group)														
Sl. No.	Course Area	Course Code		Course Title	TD/PSB	Teaching Hours/Week				Examination			Credits	
		existing	To be Changed to			Theory/Lecture	Tutorial	Practical/Drawing	SDA	Duration in hours	CIE Marks	SEE Marks		Total Marks
1	BS	BMATC201	M23BMATC201	Mathematics – II for Civil Engineering stream	Basic Science	2	2	2	0	03	50	50	100	04
2	BS	BCHEC202	M23BCHEC202	Applied Chemistry for Civil Engineering stream	Basic Science	2	2	2	0	03	50	50	100	04
3	ES	BCEDK203	M23BCEDK203	Computer-Aided Engineering Drawing	Respective Dept	2	0	2	0	03	50	50	100	03
4	ES-II	BESCK204x	M23BEK204x	Engineering Science Course-II	Respective Dept	2	0	2	0	03	50	50	100	03
5	ET-II	BPLCK205x	M23BPLK205x	Programming Language Course-II	Any Dept	3	0	0	0	03	50	50	100	03
	OR		PLC	BETCK205x		M23BETK205x	Emerging Technology Course-II	2	0	2				
6	HS	BPWSK206	M23BPWSK206	Professional Writing Skills in English	Humanities Any Dept	1	0	0	0	01	50	50	100	01
		OR		BENGK206										
7	HS	BICOK207	M23BICOK207	Indian Constitution	Humanities Any Dept M23BCOK107	1	0	0	0	01	50	50	100	01
		OR		BKSJK207/ BKBKK207										
8	AE	BSFHK258	M23BSFHK258	Scientific	Basic Science	1	0	0	0	01	50	50	100	01



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				Foundations of Health	Any Dept									
		OR												
	BIDTK258	M23BIDTK258		Innovation and Design Thinking		1	0	0	0	01				
Total											400	400	800	20
<p>SDA-Skill Development Activities, TD/PSB – Teaching Department / Paper Setting Board, BS – Basic Science Course, ES – Engineering Science Courses, ET - Emerging Technology Course, AE –Ability Enhancement Course, HSMS – Humanity and Social Science and management Course, SDC - Skill Development Course, CIE – Continuous Internal Evaluation, SEE – Semester End Examination, IC –Integrated Course (Theory Course Integrated with Practical Course)</p>														
<p>Credit Definition:</p> <p>1- hour Lecture (L) per week = 1Credit</p> <p>2- hours Tutorial (T) per week = 1Credit</p> <p>2- hours Practical/ Drawing (P) per week = 1Credit</p> <p>2- hours Skill Development Actives (SDA) per week = 1Credit</p>				<p>04- Credits courses are to be designed for 50 hours of Teaching – Learning Session</p> <p>04- Credits (IC) are to be designed for 40 hours’ theory and 12 – 14 hours of practical sessions</p> <p>03- Credits courses are to be designed for 40 hours of Teaching – Learning Session</p> <p>02- Credits courses are to be designed for 25 hours of Teaching – Learning Session</p> <p>01- Credit courses are to be designed for 12 – 15 hours of Teaching – Learning sessions</p>										
<p>Student’s Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students abroad understanding of society, relationships, and values. Along with the knowledge and skill of his/ her study, students’ character needs to be nurtured as an essential quality by which he/ she would understand and fulfil the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/ Branch and Innovation, etc. For details, refer the ANNEXURE – I of Induction Programs notification of the University published at the beginning of the 1st semester.</p>														
<p>AICTE Activity Points to be earned by students admitted to BE/ B.Tech./ B.Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines) : Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from they are of entry to VTU. The Activity Points earned shall be reflected on the student’s eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours’ requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/ CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.</p>														
<p>ES or ET of 03 credits Courses shall have only a theory component (L:T:P:S = 3:0:0:0) or if the nature the of course required practical earning syllabus shall be designed as an Integrated course (L:T:P:S = 2:0:2:0). All 01 Credit – courses shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ</p>														



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(ES-II) Engineering Science Courses-II					(ET-II) Emerging Technology Courses-II				
Code	Title	L	T	P	Code	Title	L	T	P
M23BESK204A	Introduction to Civil Engineering				M23BETK105A	Green Buildings			
M23BESK204B	Introduction to Electrical Engineering				M23BETK105B	Introduction to Nano Technology			
M23BESK204C	Introduction to Electronics Communication				M23BETK105C	Renewable Energy Sources			
M23BESK204D	Introduction to Mechanical Engineering				M23BETK105D	Waste Management			
M23BESK204E	Introduction to C Programming				M23BETK105E	Introduction to Internet of Things (IOT)			
					M23BETK105F	Introduction to Cyber Security			

(PL-II) Programming Language Courses - II				
Code	Title	L	T	P
M23BPLK205A	Introduction to Web Programming			
M23BPLK205B	Introduction to Python Programming			
M23BPLK205C	Basics of JAVA programming			
M23BPLK205D	Introduction to C++ Programming			
<ul style="list-style-type: none"> • The student has to select one course from the ES-II group. • Civil Engineering Students shall opt for any one of the courses from the ES-II group except, M23BESCK204A -Introduction to Civil Engineering • The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester • The students must select one course from either ET-II or PL-II group. • If students study the subject from ET-I in 1st semester he/she has to select the course from PL-II in the 2nd semester and vice-versa 				



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I-Semester (Civil Engineering Stream) Chemistry Group														
Sl. No.	Course Area	Course Code		Course Title	TD/PSB	Teaching Hours/Week				Examination				Credits
		existing	To be Changed to			Theory/Lecture	Tutorial	Practical/Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	BS	BMATC101	M23BMATC101	Mathematics – I for Civil Engineering stream	Basic Science	2	2	2	0	03	50	50	100	04
2	BS	BCHEC102	M23BCHEC102	Applied Chemistry for Civil Engineering stream	Basic Science	2	2	2	0	03	50	50	100	04
3	ES	BCEDK103	M23BCEDK103	Computer-aided engineering Drawing	Respective Dept	2	0	2	0	03	50	50	100	03
4	ES-1	BESCK104x	M23BESCK104x	Engineering Science Course-I	Respective Dept	2	0	2	0	03	50	50	100	03
5	ET-1	BETCK105x	M23BETCK105x	Emerging Technology Course-I	Any Dept	3	0	0	0	03	50	50	100	03
	PLC	BPLCK105x	M23BPLCK105x	Programming Language Course-I		2	0	2	0	03				
6	HS	BPWSK106	M23BPWSK106	Professional Writing Skills in English	Humanities Any Dept OR	1	0	0	0	01	50	50	100	01
		OR		BENGK106										
7	HS	BICOK107	M23BICOK107	Indian Constitution	Humanities Any Dept OR	1	0	0	0	01	50	50	100	01
		OR		BKSK107/ BKBK107										



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8	AE	BSFHK158	M23BSFHK158	Scientific Foundations of Health	Basic Science Any Dept OR	1	0	0	0	01	50	50	100	01
		OR												
		BITDK158	M23BITDK158	Innovation and Design Thinking		1	0	0	0	01				
Total											400	400	800	20

SDA-Skill Development Activities, **TD/PSB** – Teaching Department / Paper Setting Board, **BS** – Basic Science Course, **ES** – Engineering Science Courses, **ET** - Emerging Technology Course, **AE** –Ability Enhancement Course, **HSMS** – Humanity and Social Science and management Course, **SDC** - Skill Development Course, **CIE** – Continuous Internal Evaluation, **SEE** – Semester End Examination, **IC** –Integrated Course (Theory Course Integrated with Practical Course)

Credit Definition:

1- hour Lecture (**L**) per week = **1Credit**

2- hours Tutorial (**T**) per week = **1Credit**

2- hours Practical/ Drawing (**P**) per week = **1Credit**

2- hours Skill Development Actives (**SDA**) per week = **1Credit**

04- Credits courses are to be designed for 50 hours of Teaching – Learning Session

04- Credits (IC) are to be designed for 40 hours' theory and 12 – 14 hours of practical sessions

03- Credits courses are to be designed for 40 hours of Teaching – Learning Session

02- Credits courses are to be designed for 25 hours of Teaching – Learning Session

01- Credit courses are to be designed for 12 – 15 hours of Teaching – Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students abroad understanding of society, relationships, and values. Along with the knowledge and skill of his/ her study, students' character needs to be nurtured as an essential quality by which he/ she would understand and fulfil the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/ Branch and Innovation, etc. For details, refer the ANNEXURE – I of Induction Programs notification of the University published at the beginning of the 1st semester.

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ES or ET of 03 credits Courses shall have only a theory component (L:T:P:S = 3:0:0:0) or if the nature the of course required practical earning syllabus shall be designed as an Integrated course (L:T:P:S = 2:0:2:0). **All 01 Credit** – courses shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ



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(ES-I) Engineering Science Courses - I					(ET-I) Emerging Technology Courses - I				
Code	Title	L	T	P	Code	Title	L	T	P
M23BESK104A	Introduction to Civil Engineering				M23BETK105A	Smart Materials and Systems			
M23BESK104B	Introduction to Electrical Engineering				M23BETK105B	Green Buildings			
M23BESK104C	Introduction to Electronics Communication				M23BETK105C	Introduction to Nano Technology			
M23BESK104D	Introduction to Mechanical Engineering				M23BETK105D	Introduction to Sustainable Engineering			
M23BESK104E	Introduction to C Programming				M23BETK105E	Renewable Energy Sources			
					M23BETK105F	Waste Management			
					M23BETK105G	Emerging Applications of Biosensors			
					M23BETK105H	Introduction to Internet of Things (IOT)			
					M23BETK105I	Introduction to Cyber Security			
					M23BETK105J	Introduction to Embedded System			

(PL-I) Programming Language Courses - I				
Code	Title	L	T	P
M23BPLK105A	Introduction to Web Programming			
M23BPLK105B	Introduction to Python Programming			
M23BPLK105C	Basics of JAVA programming			
M23BPLK105D	Introduction to C++ Programming			
<ul style="list-style-type: none"> • The student has to select one course from the ES-I group. • Civil Engineering Students shall opt for any one of the courses from the ES-I group except, BESCK104A Introduction to CivilEngineering • The students have to opt for the courses from ES group without repeating the course either 1st or 2nd semester • The students must select one course from either ET-I or PL-I group. • If students study the subject from ET-I in 1st semester he/she has to select the course from PL-II in the 2nd semester and vice-versa 				



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 (Effective from the Academic Year 2023-24)

II-Semester (Civil Engineering Stream) Physics Group (For the students attended 1 st sem under Chemistry group)														
Sl. No.	Course Area	Course Code		Course Title	TD/PSB	Teaching Hours/Week				Examination				Credits
		Existing	To be Changed to			Theory/Lecture	Tutorial	Practical/Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	BS	BMATC201	M23BMATC201	Mathematics – II for Civil Engineering stream	Basic Science	2	2	2	0	03	50	50	100	04
2	BS	BPHYC202	M23BPHYC202	Applied Physics for Civil Engineering stream	Basic Science	2	2	2	0	03	50	50	100	04
3	ES	BCIVC203	M23BCIVC203	Engineering Mechanics	Respective Dept	2	0	2	0	03	50	50	100	03
4	ES-II	BESCK204x	M23BESCK204x	Engineering Science Course-II	Respective Dept	2	0	2	0	03	50	50	100	03
5	ET-II	BETCK205x	M23BETCK205x	M23BETK105x	Any Dept	3	0	0	0	03	50 OR	50	100	03
		OR		OR										
	PLC	BPLCK205x	M23BPLCK205x	M23BPCK105x		2	0	2	0	03				
6	HS	BENK206x	M23BENK206x	M23BENK106	Humanities Any Dept OR	1	0	0	0	01	50	50	100	01
		OR		OR										
		BPWSK206	M23BPWSK206	M23BPWK106										
7	HS	BKSKK207	M23BKSKK207	M23BSKK107/ M23BBKK107	Humanities Any Dept OR	1	0	0	0	01	50	50	100	01
		OR		OR										
		BICOK207	M23BICOK207	M23BCOK107										
8	AE	BIDTK258	M23BIDTK258	M23BIDK108	Basic Science Any Dept OR	1	0	0	0	01	50	50	100	01
		OR		OR										
		BSFHK258	M23BSFHK258	M23BSFK108		1	0	0	0	01				
Total											400	400	800	20

SDA-Skill Development Activities, **TD/PSB** – Teaching Department / Paper Setting Board, **BS** – Basic Science Course, **ES** – Engineering Science Courses, **ET** - Emerging Technology Course, **AE** –Ability Enhancement Course, **HSMS** – Humanity and Social Science and management Course, **SDC** - Skill Development Course, **CIE** – Continuous Internal Evaluation, **SEE** – Semester End Examination, **IC** –Integrated Course (Theory Course Integrated with Practical Course)



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<p>Credit Definition:</p> <p>1- hour Lecture (L) per week = 1Credit</p> <p>2- hours Tutorial (T) per week = 1Credit</p> <p>2- hours Practical/ Drawing (P) per week = 1Credit</p> <p>2- hours Skill Development Actives (SDA) per week = 1Credit</p>	<p>04- Credits courses are to be designed for 50 hours of Teaching – Learning Session</p> <p>04- Credits (IC) are to be designed for 40 hours’ theory and 12 – 14 hours of practical sessions</p> <p>03- Credits courses are to be designed for 40 hours of Teaching – Learning Session</p> <p>02- Credits courses are to be designed for 25 hours of Teaching – Learning Session</p> <p>01- Credit courses are to be designed for 12 – 15 hours of Teaching – Learning sessions</p>
<p>Student’s Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students abroad understanding of society, relationships, and values. Along with the knowledge and skill of his/ her study, students’ character needs to be nurtured as an essential quality by which he/ she would understand and fulfil the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/ Branch and Innovation, etc. For details, refer the ANNEXURE – I of Induction Programs notification of the University published at the beginning of the 1st semester.</p>	
<p>AICTE Activity Points to be earned by students admitted to BE/ B.Tech./ B.Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines) : Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from they are of entry to VTU. The Activity Points earned shall be reflected on the student’s eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours’ requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/ CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.</p>	
<p>ES or ET of 03 credits Courses shall have only a theory component (L:T:P:S = 3:0:0:0) or if the nature the of course required practical earning syllabus shall be designed as an Integrated course (L:T:P:S = 2:0:2:0). All 01 Credit – courses shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ</p>	

(ES-II) Engineering Science Courses - II					(ET-II) Emerging Technology Courses - II				
Code	Title	L	T	P	Code	Title	L	T	P
M23BESK204A	Introduction to Civil Engineering				M23BETK205A	Smart Materials and Systems			
M23BESK204B	Introduction to Electrical Engineering				M23BETK205B	Green Buildings			
M23BESK204C	Introduction to Electronics Communication				M23BETK205C	Introduction to Nano Technology			
M23BESK204D	Introduction to Mechanical Engineering				M23BETK205D	Introduction to Sustainable Engineering			
M23BESK204E	Introduction to C Programming				M23BETK205E	Renewable Energy Sources			
					M23BETK205F	Waste Management			
					M23BETK205G	Emerging Applications of Biosensors			
					M23BETK205H	Introduction to Internet of Things (IOT)			
					M23BETK205I	Introduction to Cyber Security			
					M23BETK205J	Introduction to Embedded System			



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(PL-II) Programming Language Courses - II				
Code	Title	L	T	P
M23BPLK205A	Introduction to Web Programming			
M23BPLK205B	Introduction to Python Programming			
M23BPLK205C	Basics of JAVA programming			
M23BPLK205D	Introduction to C++ Programming			
<ul style="list-style-type: none">• The student has to select one course from the ES-II group.• Civil Engineering Students shall opt for any one of the courses from the ES-II group except, M23BESCK204A -Introduction to Civil Engineering• The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester• The students must select one course from either ET-II or PL-II group.• If students study the subject from ET-I in 1st semester he/she has to select the course from PL-II in the 2nd semester and vice-versa				